



natural refrigerants

15-16 October 2013, Brussels

SANDEN Europe

Market trends session

Olivier CAMPY - CEO









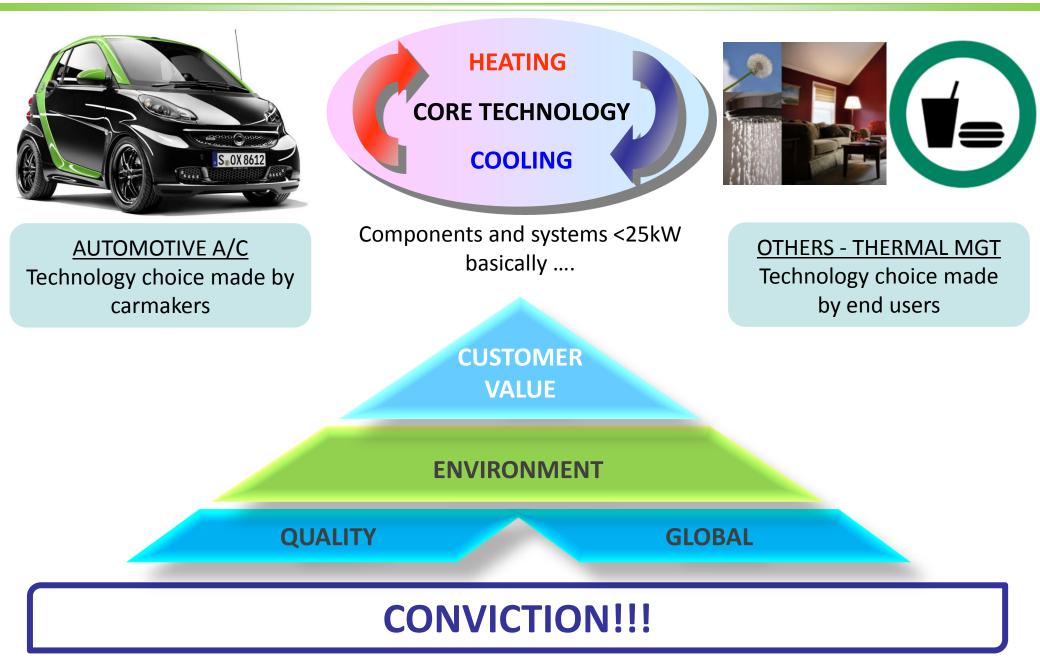


July, 30th 1943 Foundation	> 2 b.€ in 2012 (62%) Turnover (international)	59 sites in 23 countries Close to customers	25% Automotive AC market share
30% Vending machines market share	Since the 60's Thermal Comfort Division	15 000 Employees (w. JV)	1 out of 7 OECD awarded green plants



- CORE KNOW-HOW





- GLOBAL STRATEGY / DEFINITION PROCESS



Our tools for enhancing our "Global thinking"

 Advanced technologies development: cross-divisions SANDEN Global Center of Technology



SANDEN





- "Fish finding" full market analysis (<u>no limit</u> within thermal management)
 > Thermal comfort / Energy efficiency: detailed identification of growing markets
 > Clear trend to get rid of F-Gas (CFC, HCFC, ...HFC and others) ??timing??
- SANDEN "DNA" Our culture
 - > Quality / Global / Environment
 - > Serve our customers
 - > Close to the markets: local Development and Product Management (local value >> global direction)

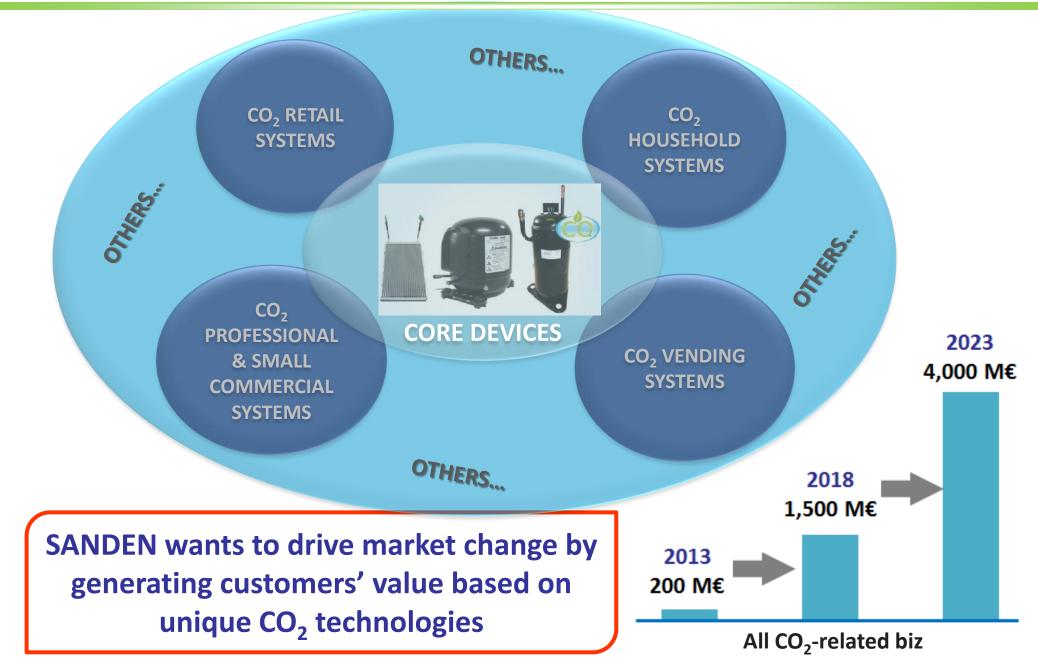
Key finding: People keen to protect the environment... but not willing to pay for it!!

DEPLOY 'CONCRETE' AMBITION

PROVIDE MARKETS WITH THE HIGHEST PERFORMANCE SOLUTIONS

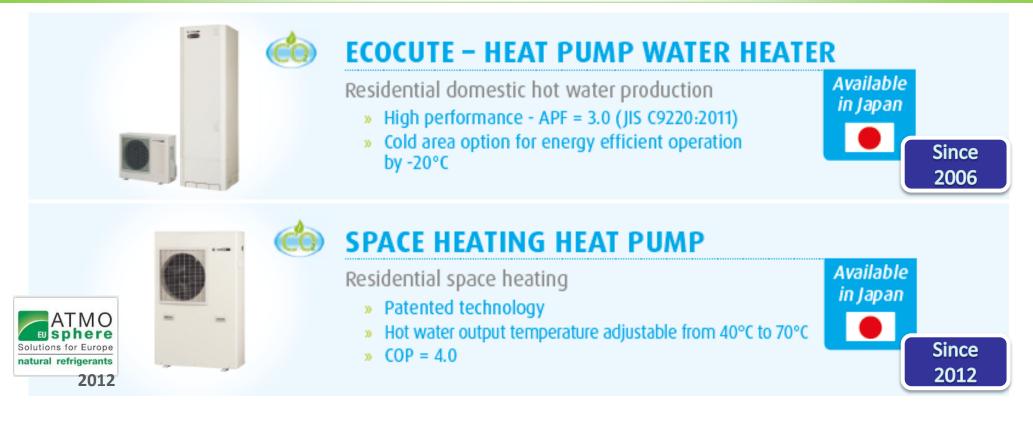
SANDEN - AMBITION















Available

in Australia

¥€

Since

2010





HEAT PUMP WATER HEATER

Residential domestic hot water production

- » Based on Ecocute
- » Quietest and most efficient heat pump water heater in Australia
- » COP = 4.5









Residential domestic hot water production

- » Developed and manufactured in France for the European market
- » COP = 3.42 (certified EN16147)





Description and a constraints of the second sec

Hot water production – residential & professional

- Indoor distance installation: up to 12 meter distance allowed between heat pump unit and DHW tank
 Tank capacities available from 200 to 750L
- Available in Europe Since 2012

) aqua**eco2 - COMBI-TYPE HEAT PUMP**

Residential space heating & domestic hot water production

- » The first combi-type CO₂ heat pump in Europe for households
- The best COP for domestic hot water production COP = 3.64 (EN16147)



EU ATMO Solutions for europe

natural refrigerants

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Thank you very much!

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